RESPONSE TO RESTRICTION REQUIREMENT

Serial Number: 10/585,373

Dkt: IP-0338-US

Filing Date: July 21, 2006

Title: Modified Molecular Arrays

REMARKS

Claims 54–60 were canceled earlier. Nonelected claims 17–37, 39, and 51–53 are

canceled herein; the Applicants reserve the right to pursue their subject matter in one or more

priority-related applications. Claims 4 and 44 are canceled as discussed below.

Claims 1, 11, 38, 40–43, and 45–48 are amended as discussed below. Claims 1 and 43

have been amended to incorporate the features of claim 44.

After entry of the amendment, claims 1–3, 5–16, 38, 40–43, and 45–50 will be pending.

Regarding the Amendment to the Specification and Drawings

The last paragraph of page 13 has been amended to include a brief description of Figure

12c. The description is supported by Figure 12c as originally filed. The parentheses in the

Figure numbers have also been removed to conform to the drawings.

Figure 12(c) has been amended to correct the spelling of "FUG. 12c" to "FIG. 12c".

Rejections under 35 U.S.C. § 112, second paragraph

Claims 1 and 43 and are rejected for lack of clarity because the letter C represents a

carbon atom or stands for a functional group variable. Although the meaning of a given C is

believed to be clear in context to a skilled artisan, claims 1, 11, and 43 have been amended to

distinguish the variable by adding an asterisk: C*. In addition, an extraneous hyphen following

C has been removed from formula (II). Both changes are to improve clarity without changing

the substance of the claims.

Claim 4 is rejected for reciting the trade name SPECTRASIL™ (or rather Spectrosil®).

Claim 4 was also objected to for the wording "silica fused silica". This claim has been canceled

to further prosecution of the other claims.

- 10 -

RESPONSE TO RESTRICTION REQUIREMENT

Serial Number: 10/585,373

Dkt: IP-0338-US

Filing Date: July 21, 2006

Title: Modified Molecular Arrays

Rejections under 35 U.S.C. § 102(b)

— Ponticello

Claims 1, 2, 6–9, 11–13, and 14–16 are rejected for anticipation by U.S. Patent 5,212,253 ("Ponticello"). The Office Action points out the description of structure I in column 6, structure I:

$$CH_2=CR^1-L-R^2$$

where L can be

$$-(R^3)_k - (COXR^4)_m - (NHCO)_n -$$

where R^3 can be an arylene (not relevant if k = 0)

where X can be O or NH (i.e. forming –COOR or –CONHR)

where R⁴ can be an alkylene chain

and R2' is a haloacetamido group.

Taking the structure in claim 13 (BRAPA) as an example, the Applicants believe L would be most analogous to –CONH– (CH₂)₅–. However, this analogous structure and the genus recited in claims 1 and 43 do not fit within the disclosure of Ponticello as applied in the Office Action, which would require at least an extra amine.

Moreover, Ponticello does not describe polymerization on a solid support that has not been surface-modified, as recited in amended claims 1 and 43. The utility of using non-modified surfaces is discussed on pages 19 to 21 of the Specification.

— Kim

Claims 37, 38, 39, 45, and 48 are rejected for anticipation by US Pub. 2003/0008413 ("Kim"). Claims 37 and 39 have been canceled and their features have been moved to new base claim 43. Claims 45 and 48 (among others) have been amended to depend from base claim 43. Accordingly, this rejection is moot.

RESPONSE TO RESTRICTION REQUIREMENT

Serial Number: 10/585,373

Dkt: IP-0338-US

Filing Date: July 21, 2006

Title: Modified Molecular Arrays

Rejections under 35 U.S.C. § 103(a)

— Ponticello in view of Leon and Patani

Claims 1–3 and 5–16 are rejected as obvious over Ponticello in view of US Pub.

2005/0064431 ("Leon") and Patani et al., Chemical Reviews 96:3147–3176 (1996) ("Patani").

- Kim in view of Ponticello, Rubner, Mir, and Adessi

Claims 37–50 are rejected as obvious over Kim in view of Ponticello, US 2003/0157260

("Rubner"), US Pub. 2004/0248144 ("Mir"), and WO 00/18957 ("Adessi").

Both obviousness rejections rely on the disclosure of Ponticello, which does not

adequately fit the species recited in claims 1, and 43, as discussed above. The secondary

references do not remedy the defects in Ponticello, so the Applicant submits the combinations of

the references do not state a *prima facie* case of obviousness.

The Applicants respectfully submit that the claims are in condition for allowance and

request notification to that effect. If there any questions, please feel free call the Applicants'

attorney below.

Respectfully submitted,

Date: January 20, 2012

/Calvin Fan/

Calvin Fan, Reg. No. 38,444

Customer No. 29,389

Illumina, Inc.

5200 Illumina Way

San Diego, California 92122

- 12 -